

New isolated **CYP3A4 polymorphic** sequences

;

and DNA **probe** used for disease diagnosis, drug screening and cell-free models, etc.

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AB Isolated nucleic acid molecules containing a **CYP3A4** sequence **polymorphism**, as part of other than a naturally occurring chromosome is new. Also claimed are: a DNA **probe**; a method for detecting in an individual a **polymorphism** in **CYP3A4** metabolism of a substrate; and an array of oligonucleotide containing

the

nucleic acid molecules. The nucleic acids can be used to screen patients

for altered metabolism for **CYP3A4** substrates, potential drug-drug interactions, and adverse/side effects as well as diseases that

result from environmental or occupational exposure to toxins. They can also be used to establish animal, cell culture and in vitro cell-free models for drug metabolism. **Polymorphic CYP3A4** gene sequences can be used for expression studies to determine the effect of promoter and/or **intron** sequence variations on mRNA expression and stability. The **polymorphisms** can also be used as single nucleotide **polymorphisms** to detect genetic linkage to phenotypic variation in activity and expression of **CYP3A4**. The nucleic acids can also be used to generate genetically modified

non-human

animals or site specific gene modifications in cell lines. (39pp)

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